



# HITACHI

Inspire the Next

## PENTAHO EMBEDDED WORKSHOP

Install Guide

Version 0.7

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## Pentaho Embedded Workshop – Install Guide

### Overview

This document is intended to guide you in installing the Pentaho Embedded workshop. The workshop is about integrating Pentaho inside another application via iFrames.

Software	Version
Pentaho BA Server	8.0



In this workshop, we'll guide you in the code needed to integrate Pentaho into your application via iFrame. Any code showed in this workshop is not to be considered production-ready by any means, and is **not supported**. It's only meant for educational purposes.

## Install using CBF2

### Docker Installation

Thanks to João Gameiro for this guide



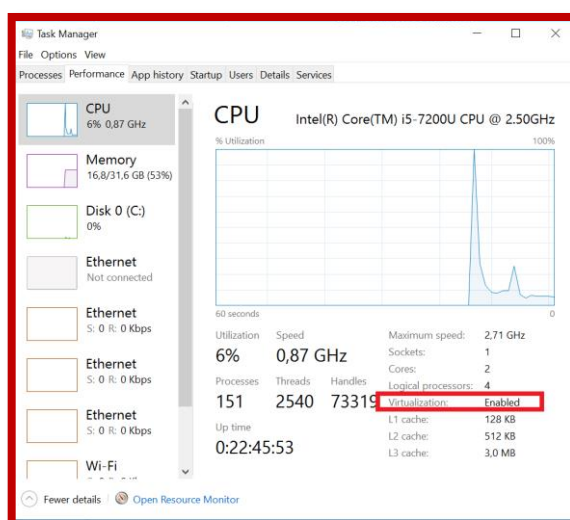
If you have already configured CBF2 in your computer skip to [Create Project](#)

Download Docker CE Windows

<https://store.docker.com/editions/community/docker-ce-desktop-windows?tab=description>

Check if virtualization is enable

1. Task Manager > Performance

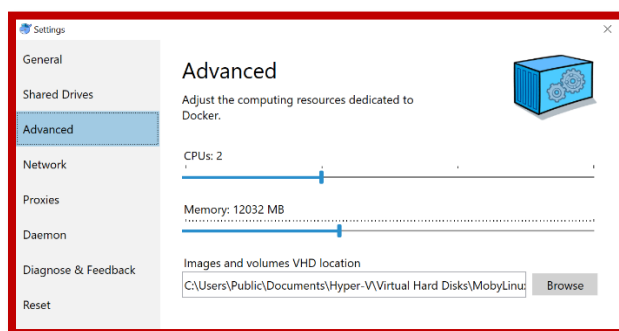


2. Docker need virtualization enable.
  - a. [Enabling virtualization in BIOS](#)

## Pentaho Embedded Workshop – Install Guide

### Increase Memory and CPU's in Docker

#### 3. Settings > Advanced



### Cygwin Installation

1. Download Cygwin from
  - a. <https://cygwin.com/install.html>
2. Install the unzip package



#### 3. And ZIP

			Skip	n/a	n/a	37k	pbzip2: Parallel BZIP2 de/compressor
6.0-16			Keep	n/a	<input type="checkbox"/>	186k	unzip: Info-ZIP decompression utility
3.0-12			Keep	n/a	<input type="checkbox"/>	217k	zip: Info-ZIP compression utility
			Skip	n/a	n/a	51k	zzlib: ZIP file utilities
Base							
			Skip	n/a	n/a	111k	bzip2-debuginfo: Debug info for bzip2
			Skip	n/a	n/a	191k	gzip-debuginfo: Debug info for gzip
			Skip	n/a	n/a	156k	libzip-debuginfo: Debug info for libzip
			Skip	n/a	n/a	422k	lrzip-debuginfo: Debug info for lrzip
			Skip	n/a	n/a	71k	perl-Compress-Bzip2-debuginfo: Debug info for perl-Compress-Bzip2
			Skip	n/a	n/a	458k	quazip-debuginfo: Debug info for quazip
6.0-16			Keep	n/a	<input type="checkbox"/>	342k	unzip-debuginfo: Debug info for unzip
3.0-12			Keep	n/a	<input type="checkbox"/>	409k	zip-debuginfo: Debug info for zip

## Pentaho Embedded Workshop – Install Guide

### Install CBF2

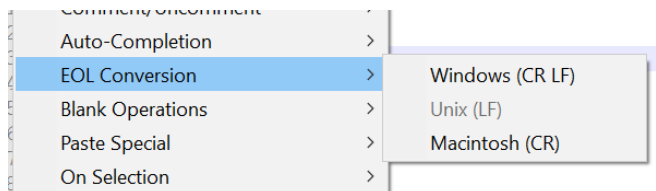
#### Download and Install

1. Download CBF2 from  
<https://github.com/webdetails/CBF2>
2. Unzip and copy to your machine “..\cbf2”
3. Edit softwareToCoreImage.sh
  - ..\cbf\softwareToCoreImage.sh
  - change line 178 from
    - <installpath>\$targetDir</installpath>
    - to:
    - <installpath>../../pentaho/pentaho-server/pentaho-solutions/system</installpath>

Check all files \*.sh are encode Unix.

Open on Notepad++ all files \*.sh (“..\cb2” and “..\cbf2\dockerfiles\scripts”)

- Edit > EOL Conversion



Check if Java, Zip & Unzip is installed (in Cygwin)

- java -version
- zip
- unzip

#### Download & Copy licenses

- Copy licenses to “..\cbf2\licenses”

#### Download & Copy Pentaho Server and Plugins

1. Copy Pentaho Software to “..\cbf2\software\x.x.x” (ex. 7.0.0 you need this format 3 digits)
2. You can find the downloads in the Pentaho Support Portal (Archive Build)



## Pentaho Embedded Workshop – Install Guide

### Create Core Image

#### Create the Core Image, Software

- In Cygwin: cd to your cbf2 folder cd /cygdrive/c/<add-here-the-path-to-cbf2>
- Make sure you don't have any PostgreSQL server running
- Run command "./cbf2.sh"
  - Select "A" – add new image
  - Chose the server you need

```
> Select an entry number, [A] to add new image or [C] to create new project: A

Servers found on the software dir:
[0]: pentaho-server-ee-7.0.0.0-25-dist.zip

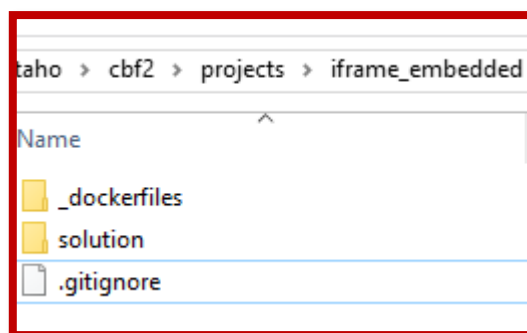
Choose the server to install [0]:
```

- When appear the EULA text – press "Q" and "Y"
- Core Image with Pentaho server is now created

### Create Project

#### Download & Copy Project Solution

1. Open the [Github project](#)
2. Open the assets folder
3. Download **peps\_master\_cbf2.zip**
4. Unzip it
5. Copy project to "..\cbf2\projects"



#### Create the Project Image

1. Run command "./cbf2.sh"
  - a. Select "C" – create new project
  - b. Chose the project and server you need

```
> Select an entry number, [A] to add new image or [C] to create new project: C

Choose a project to build an image for:

[0] lumada-demo

> Choose project: 0

Select the image to use for the project

[0] baserver-ee-7.0.0.0-25

> Choose image: |
```

## Pentaho Embedded Workshop – Install Guide

### Create the Project Container

- Run command “./cbf2.sh”
  - Select image project
    - Launch a new container “L”
    - Debug mode “y”

```
[0] baserver-ee-7.0.0.0-25
Core containers available:
-----
[1] (Stopped): baserver-ee-7.0.0.0-25-debug
Project images available:
-----
[2] pdu-lumada-demo-baserver-ee-7.0.0.0-25
Project containers available:
-----
[3] (Stopped): pdu-lumada-demo-baserver-ee-7.0.0.0-25-debug
> Select an entry number, [A] to add new image or [C] to create new project: 2
You selected the image pdu-lumada-demo-baserver-ee-7.0.0.0-25
> What do you want to do? (L)aunch a new container, (D)elete the image or (I)nspect before launch)? [L]: L
Do you want to start the image pdu-lumada-demo-baserver-ee-7.0.0.0-25 in debug mode? [y/N]: |
```

### Troubleshooting

Error	Possible solution
While launching the project (or server) after hitting yes for debugging, no logs are printed and nothing happens	<ul style="list-style-type: none"> <li>• Check docker configuration (RAM)</li> <li>• Restart docker for windows, menu Reset. Restart docker. Wait for the traffic light to become green and indicate docker server started</li> </ul>



## Install using zip asset



This installation will run only with the default and Vantara themes. The extended samples are not included

### Download the workshop material

1. Open the [Github project](#)
2. Open the assets folder
3. Download **pentaho\_embedded\_local.zip**
4. Unzip the file
5. Copy the folder pentaho\_embedded in your local Pentaho path:
  - a. C:\Pentaho\server\pentaho-server\tomcat\webapps
6. I tested this version with 8.0 but should work also in 7.1 or previous

### Enable Parameter Authentication for Pentaho Server

Now that your local environment is setup we need to change some configuration files. This embedded sample will use username and password in the url to authenticate the user. In a real world project we would probably use a SSO mechanism or a token here.

1. Open the file
  - a. C:\Pentaho\server\pentaho-server\pentaho-solutions\system\security.properties
2. Modify it as indicated below and save it

```
<!-- Modify Line 2 -->  
requestParameterAuthenticationEnabled=true
```

### Restart Pentaho Server

1. Run the file
  - a. C:\Pentaho\server\pentaho-server\tomcat\bin\pentahoserverw.exe
2. Click Stop, then Start

### Following the workshop

You can choose to edit the content of the js file in your machine (assets/js/pentaho\_embedded\_ws.js) or use the online editor (will store the code in session).

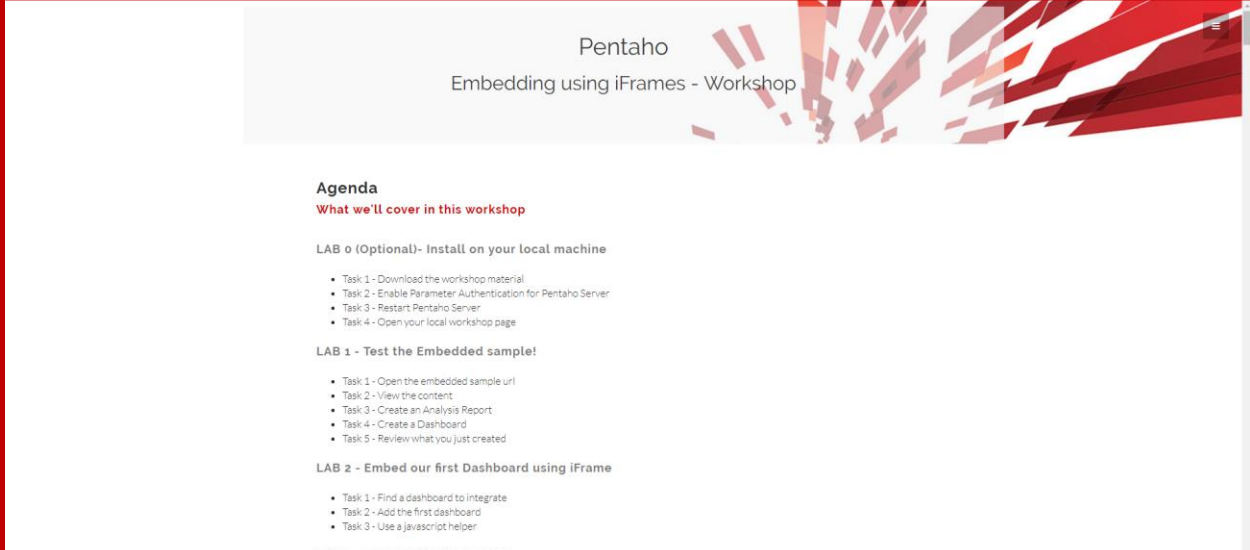
## Pentaho Embedded Workshop – Install Guide

### How to run the demo

Open your browser:

- Workshop: [http://localhost:8080/pentaho\\_embedded/embedding\\_ws.html](http://localhost:8080/pentaho_embedded/embedding_ws.html)
- Embedded portal: [http://localhost:8080/pentaho\\_embedded](http://localhost:8080/pentaho_embedded)

The workshop include a lab that will guide you in discovering the embedded portal and its features



Pentaho  
Embedding using iFrames - Workshop

**Agenda**  
What we'll cover in this workshop

**LAB 0 (Optional)- Install on your local machine**

- Task 1 - Download the workshop material
- Task 2 - Enable Parameter Authentication for Pentaho Server
- Task 3 - Restart Pentaho Server
- Task 4 - Open your local workshop page

**LAB 1 - Test the Embedded sample!**

- Task 1 - Open the embedded sample url
- Task 2 - View the content
- Task 3 - Create an Analysis Report
- Task 4 - Create a Dashboard
- Task 5 - Review what you just created

**LAB 2 - Embed our first Dashboard using iFrame**

- Task 1 - Find a dashboard to integrate
- Task 2 - Add the first dashboard
- Task 3 - Use a javascript helper

**LAB 3 - Embed Other Resources**



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